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United States
Department of
Agriculture

National
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Service



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Milk Production, Disposition and Income 1998 Summary

May 1999

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Milk Production, Disposition, and Income 1998

Milk production increased 1 percent in 1998 to 157 billion pounds. The rate per cow at 17,192 pounds, was 321 pounds above 1997. The annual average number of cows on farms at 9.16 million head, was 94,000 less than 1997.

Cash receipts from marketings of milk during 1998 at \$24.3 billion dollars, was 16 percent above 1997. Producer returns averaged \$15.57 per hundredweight, 15 percent above 1997. Marketings totaled 156 billion pounds, 1 percent above 1997. Marketings include whole milk sold to plants and dealers as well as milk sold directly to consumers.

An estimated 1.36 billion pounds of milk were used on farms where produced, 2 percent less than 1997. Calves were fed 83 percent of this milk with the remainder consumed in producer households.

**Milk Cows and Production of Milk and Milkfat:
United States, 1996-98 ¹**

Year	Number of Milk Cows ²	Production of Milk and Milkfat ³				
		Per Milk Cow		Percentage of Fat in All Milk Produced	Total	
		Milk	Milkfat		Milk	Milkfat
	<i>1,000 Head</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Percent</i>	<i>Million Pounds</i>	<i>Million Pounds</i>
1996	9,372	16,433	606	3.69	154,006	5,678.8
1997	9,252	16,871	617	3.66	156,091	5,705.9
1998	9,158	17,192	629	3.66	157,441	5,764.8

¹ May not add due to rounding.

² Average number during year, excluding heifers not yet fresh.

³ Excludes milk sucked by calves.

**Milk Used and Marketed by Producers:
United States, 1996-98 ¹**

Year	Milk Used Where Produced			Milk Marketed by Producers		
	Fed to Calves ²	Used for Milk, Cream and Butter	Total	Sold to Plants and Dealers	Sold Directly to Consumers ⁴	Total
				As Whole Milk ³		
	<i>Million Pounds</i>	<i>Million Pounds</i>	<i>Million Pounds</i>	<i>Million Pounds</i>	<i>Million Pounds</i>	<i>Million Pounds</i>
1996	1,175	301	1,476	151,232	1,299	152,531
1997	1,138	256	1,394	153,405	1,292	154,697
1998	1,127	235	1,361	154,924	1,156	156,080

¹ May not add due to rounding.

² Excludes milk sucked by calves.

³ Includes milk produced by dealers' own herds and small amounts sold directly to consumers. Also includes equivalent amounts of milk for cream sold to plants and dealers.

⁴ Sales directly to consumers by producers who sell only milk from their own herds. Also includes milk produced by institutional herds.

**Milk Marketed by Producers: Quantity, Price,
and Cash Receipts, United States, 1996-98 ¹**

Year	Milk Sold to Plants and Dealers			Milk Sold Directly to Consumers		
	Quantity	Price per 100 Lb	Cash Receipts	Quantity	Price per Quart	Cash Receipts
	<i>Mil Lbs</i>	<i>Dollars</i>	<i>1,000 Dollars</i>	<i>1,000 Qt</i>	<i>Dollars</i>	<i>1,000 Dollars</i>
1996	151,232	14.75	22,307,546	604,279	0.784	473,889
1997	153,405	13.36	20,496,289	601,023	0.733	440,437
1998	154,924	15.41	23,871,006	537,767	0.814	437,767

¹ May not add due to rounding.

**Marketings, Income, and Value of Milk Production:
United States, 1996-98 ¹**

Year	Combined Marketings of Milk and Cream			
	Milk Utilized	Average Returns ²		Cash Receipts from Marketings
		Per 100 Pounds of Milk	Per Pound of Milkfat	
	<i>Mil Lbs</i>	<i>Dollars</i>	<i>Dollars</i>	<i>1,000 Dollars</i>
1996	152,531	14.94	4.05	22,781,435
1997	154,697	13.53	3.70	20,936,726
1998	156,080	15.57	4.25	24,308,773
Combined Marketings of Milk and Cream				
	Used for Milk, Cream and Butter Where Produced		Gross Producers Income ⁴	Value of All Milk Produced ^{3 5}
	Milk Utilized	Value ³		
	<i>Mil Lbs</i>	<i>1,000 Dollars</i>	<i>1,000 Dollars</i>	<i>1,000 Dollars</i>
1996	301	45,304	22,826,739	23,002,715
1997	256	34,854	20,971,580	21,125,886
1998	235	36,568	24,345,341	24,520,387

¹ May not add due to rounding.

² Cash receipts divided by milk or milkfat in combined marketings.

³ Value at average returns per 100 pounds of milk in combined marketings of milk and cream.

⁴ Cash receipts from marketings of milk and cream plus value of milk used for home consumption.

⁵ Includes value of milk fed to calves.

**Milk Cows and Production of Milk and Milkfat:
By State and United States, 1997 ¹**

State	Number of Milk Cows ²	Production of Milk and Milkfat ³				
		Per Milk Cow		Percentage of fat in All Milk Produced	Total	
		Milk	Milkfat		Milk	Milkfat
	<i>1,000 Head</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Percent</i>	<i>Million Pounds</i>	<i>Million Pounds</i>
AL	31	13,484	484	3.59	418	15.0
AK	0.9	16,667	562	3.37	15.00	0.5
AZ	127	20,976	747	3.56	2,664	94.8
AR	53	11,981	423	3.53	635	22.4
CA	1,391	19,829	722	3.64	27,582	1,004.0
CO	84	19,988	720	3.60	1,679	60.4
CT	30	16,967	618	3.64	509	18.5
DE	10.0	14,800	543	3.67	148.0	5.4
FL	160	15,475	554	3.58	2,476	88.6
GA	97	15,340	549	3.58	1,488	53.3
HI	9.1	13,516	462	3.42	123	4.2
ID	272	19,092	676	3.54	5,193	183.8
IL	133	16,564	615	3.71	2,203	81.7
IN	137	15,978	590	3.69	2,189	80.8
IA	230	16,057	597	3.72	3,693	137.4
KS	81	15,864	579	3.65	1,285	46.9
KY	148	12,264	442	3.60	1,815	65.3
LA	66	12,030	417	3.47	794	27.6
ME	41	16,146	588	3.64	662	24.1
MD	86	15,419	566	3.67	1,326	48.7
MA	26	16,692	618	3.70	434	16.1
MI	306	17,680	645	3.65	5,410	197.5
MN	569	16,186	604	3.73	9,210	343.5
MS	47	13,489	479	3.55	634	22.5
MO	177	13,345	486	3.64	2,362	86.0
MT	19	15,526	550	3.54	295	10.4
NE	69	15,072	556	3.69	1,040	38.4
NV	26	18,346	659	3.59	477	17.1
NH	20	16,400	618	3.77	328	12.4
NJ	21	14,238	515	3.62	299	10.8
NM	202	19,856	695	3.50	4,011	140.4
NY	699	16,495	605	3.67	11,530	423.2
NC	79	16,506	601	3.64	1,304	47.5
ND	56	12,732	466	3.66	713	26.1

See footnotes at end of table.

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**Milk Cows and Production of Milk and Milkfat:
By State and United States, 1997 ¹ (continued)**

State	Number of Milk Cows ²	Production of Milk and Milkfat ³				
		Per Milk Cow		Percentage of Fat in All Milk Produced	Total	
		Milk	Milkfat		Milk	Milkfat
	<i>1,000 Head</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Percent</i>	<i>Million Pounds</i>	<i>Million Pounds</i>
OH	270	16,352	603	3.69	4,415	162.9
OK	92	13,576	486	3.58	1,249	44.7
OR	90	17,889	653	3.65	1,610	58.8
PA	629	16,951	614	3.62	10,662	386.0
RI	2.0	15,950	558	3.50	31.9	1.1
SC	26	15,269	559	3.66	397	14.5
SD	105	13,181	488	3.70	1,384	51.2
TN	113	14,239	508	3.57	1,609	57.4
TX	378	15,259	546	3.58	5,768	206.5
UT	91	16,923	609	3.60	1,540	55.4
VT	160	16,250	605	3.72	2,600	96.7
VA	125	14,864	529	3.56	1,858	66.1
WA	253	20,968	763	3.64	5,305	193.1
WV	18	14,778	542	3.67	266	9.8
WI	1,393	16,057	605	3.77	22,368	843.3
WY	6.6	12,697	461	3.63	83.8	3.0
US	9,252	16,871	617	3.66	156,091	5,705.9

¹ May not add due to rounding.

² Average number during year, excluding heifers not yet fresh.

³ Excludes milk sucked by calves.

**Milk Used and Marketed by Producers: By State
and United States, 1997**

State	Milk Used Where Produced			Milk Marketed by Producers		
	Fed to Calves ¹	Used For Milk, Cream and Butter	Total	Sold to Plants and Dealers ²	Sold Directly to Consumers ^{3 4}	Total
	<i>Million Pounds</i>	<i>Million Pounds</i>	<i>Million Pounds</i>	<i>Million Pounds</i>	<i>Million Pounds</i>	<i>Million Pounds</i>
AL	3	1	4	414		414
AK	0.5	0.4	0.9	13.9	0.2	14.1
AZ	10	1	11	2,653		2,653
AR	10	4	14	621		621
CA	22	3	25	26,992	565	27,557
CO	38	8	46	1,590	43	1,633
CT	6	1	7	488	14	502
DE	1.0		1.0	147.0		147.0
FL	4	1	5	2,471		2,471
GA	12	1	13	1,475		1,475
HI	2.5	1.2	3.7	119.3		119.3
ID	35	5	40	5,153		5,153
IL	20	2	22	2,181		2,181
IN	30	10	40	2,149		2,149
IA	35	18	53	3,640		3,640
KS	13	1	14	1,271		1,271
KY	31	10	41	1,774		1,774
LA	12	3	15	779		779
ME	8	1	9	645	8	653
MD	7	3	10	1,316		1,316
MA	5	1	6	412	16	428
MI	41	4	45	5,350	15	5,365
MN	95	15	110	9,100		9,100
MS	3	1	4	630		630
MO	27	6	33	2,329		2,329
MT	7	4	11	284		284
NE	15	10	25	1,015		1,015
NV	5	1	6	471		471
NH	4	1	5	323		323
NJ	4	1	5	294		294
NM	13	6	19	3,946	46	3,992
NY	130	25	155	11,363	12	11,375
NC	12	10	22	1,282		1,282
ND	15	2	17	696		696

See footnotes at end of table.

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**Milk Used and Marketed by Producers: By State
and United States, 1997 (continued)**

State	Milk Used Where Produced			Milk Marketed by Producers		
	Fed to Calves ¹	Used For Milk, Cream and Butter	Total	Sold to Plants and Dealers ²	Sold Directly to Consumers ^{3 4}	Total
	<i>Million Pounds</i>	<i>Million Pounds</i>	<i>Million Pounds</i>	<i>Million Pounds</i>	<i>Million Pounds</i>	<i>Million Pounds</i>
OH	22	8	30	4,385		4,385
OK	15	2	17	1,232		1,232
OR	25	5	30	1,515	65	1,580
PA	69	11	80	10,322	260	10,582
RI	0.4		0.4	31.5		31.5
SC	2	1	3	392	2	394
SD	12	2	14	1,370		1,370
TN	8	1	9	1,600		1,600
TX	19	2	21	5,747		5,747
UT	18	2	20	1,473	47	1,520
VT	25	5	30	2,564	6	2,570
VA	13	2	15	1,843		1,843
WA	30	1	31	5,081	193	5,274
WV	2	1	3	263		263
WI	200	51	251	22,117		22,117
WY	1.4	0.2	1.6	82.2		82.2
US ⁵	1,138	256	1,394	153,405	1,292	154,697

¹ Excludes milk sucked by calves.

² Includes milk produced by dealer's own herds and small amounts sold directly to consumers. Also included equivalent amounts of milk for cream sold to plants and dealers.

³ Sales directly to consumers by producers who sell only milk from their own herds. Also includes milk produced by institutional herds.

⁴ For States not published, sales are included in milk sold to plants.

⁵ May not add due to rounding.

**Milk Marketed by Producers: Quantity, Price, and Cash Receipts
by State and United States, 1997**

State	Milk Sold to Plants and Dealers ¹				Milk Sold Directly to Consumers ²		
	Quantity	Percent Fluid Grade ³	Price per 100 Lbs	Cash Receipts	Quantity	Price per Quart	Cash Receipts
	<i>Mil Lbs</i>	<i>Percent</i>	<i>Dollars</i>	<i>1,000 Dol</i>	<i>1,000 Qts</i>	<i>Dol</i>	<i>1,000 Dol</i>
AL	414	100	14.80	61,272			
AK	13.9	100	20.30	2,822	93	0.75	70
AZ	2,653	100	13.00	344,890			
AR	621	99	14.50	90,045			
CA	26,992	99	12.62	3,406,390	262,791	0.85	223,372
CO	1,590	100	13.00	206,700	20,000	0.82	16,400
CT	488	100	14.60	71,248	6,512	0.75	4,884
DE	147.0	100	13.80	20,286			
FL	2,471	100	16.50	407,715			
GA	1,475	100	14.70	216,825			
HI	119.3	100	24.71	29,479			
ID	5,153	96	12.30	633,819			
IL	2,181	95	13.60	296,616			
IN	2,149	93	13.00	279,370			
IA	3,640	94	13.40	487,760			
KS	1,271	97	12.80	162,688			
KY	1,774	98	13.70	243,038			
LA	779	100	14.30	111,397			
ME	645	100	14.50	93,525	3,721	0.57	2,121
MD	1,316	100	13.80	181,608			
MA	412	100	14.70	60,564	7,442	0.75	5,582
MI	5,350	99	13.60	727,600	6,977	0.65	4,535
MN	9,100	92	13.19	1,200,290			
MS	630	100	14.40	90,720			
MO	2,329	94	13.70	319,073			
MT	284	100	13.20	37,488			
NE	1,015	94	13.20	133,980			
NV	471	100	11.90	56,049			
NH	323	100	14.60	47,158			
NJ	294	100	13.80	40,572			
NM	3,946	100	12.90	509,034	21,395	0.79	16,902
NY	11,363	100	13.40	1,522,642	5,581	0.63	3,516
NC	1,282	99	15.10	193,582			
ND	696	59	12.40	86,304			

See footnotes at end of table.

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**Milk Marketed by Producers: Quantity, Price, and Cash Receipts
by State and United States, 1997 (continued)**

State	Milk Sold to Plants and Dealers ¹				Milk Sold Directly to Consumers ²		
	Quantity	Percent Fluid Grade ³	Price Per 100 Lbs	Cash Receipts	Quantity	Price Per Quart	Cash Receipts
	<i>Mil Lbs</i>	<i>Percent</i>	<i>Dollars</i>	<i>1,000 Dol</i>	<i>1,000 Qts</i>	<i>Dol</i>	<i>1,000 Dol</i>
OH	4,385	94	13.30	583,205			
OK	1,232	100	13.80	170,016			
OR	1,515	99	13.20	199,980	30,233	0.60	18,140
PA	10,322	99	14.00	1,445,080	120,930	0.58	70,139
RI	31.5	100	14.50	4,568			
SC	392	100	14.50	56,840	930	0.78	725
SD	1,370	60	13.20	180,840			
TN	1,600	98	14.10	225,600			
TX	5,747	100	13.70	787,339			
UT	1,473	91	12.30	181,179	21,860	0.67	14,646
VT	2,564	100	14.30	366,652	2,791	0.70	1,954
VA	1,843	99	14.00	258,020			
WA	5,081	100	13.20	670,692	89,767	0.64	57,451
WV	263	99	13.50	35,505			
WI	22,117	93	13.33	2,948,196			
WY	82.2	81	12.20	10,028			
US ⁴	153,405	97	13.36	20,496,289	601,023	0.733	440,437

¹ Includes the equivalent amounts of milk for cream sold to plants and dealers.

² Some States not published to avoid disclosing individual operations. Includes sales directly to consumers by producers who sell only milk from their own herds. Also includes milk produced by institutional herds.

³ Percentage of milk sold to plants and dealers that is eligible for fluid use (grade A for fluid use in most States). Includes fluid-grade milk used in manufacturing dairy products.

⁴ May not add due to rounding.

**Milk and Cream: Marketings and Income,
By State and United States, 1997**

State	Milk Utilized	Average Returns ¹		Cash Receipts from Marketings
		Per Cwt Milk	Per Lb Milkfat	
	<i>Million Pounds</i>	<i>Dollars</i>	<i>Dollars</i>	<i>1,000 Dollars</i>
AL	414	14.80	4.12	61,272
AK	14.1	20.51	6.09	2,892
AZ	2,653	13.00	3.65	344,890
AR	621	14.50	4.11	90,045
CA	27,557	13.17	3.62	3,629,762
CO	1,633	13.66	3.79	223,100
CT	502	15.17	4.17	76,132
DE	147.0	13.80	3.76	20,286
FL	2,471	16.50	4.61	407,715
GA	1,475	14.70	4.11	216,825
HI	119.3	24.71	7.23	29,479
ID	5,153	12.30	3.47	633,819
IL	2,181	13.60	3.67	296,616
IN	2,149	13.00	3.52	279,370
IA	3,640	13.40	3.60	487,760
KS	1,271	12.80	3.51	162,688
KY	1,774	13.70	3.81	243,038
LA	779	14.30	4.12	111,397
ME	653	14.65	4.02	95,646
MD	1,316	13.80	3.76	181,608
MA	428	15.45	4.18	66,146
MI	5,365	13.65	3.74	732,135
MN	9,100	13.19	3.54	1,200,290
MS	630	14.40	4.06	90,720
MO	2,329	13.70	3.76	319,073
MT	284	13.20	3.73	37,488
NE	1,015	13.20	3.58	133,980
NV	471	11.90	3.31	56,049
NH	323	14.60	3.87	47,158
NJ	294	13.80	3.81	40,572
NM	3,992	13.17	3.76	525,936
NY	11,375	13.42	3.66	1,526,158
NC	1,282	15.10	4.15	193,582
ND	696	12.40	3.39	86,304

See footnotes at end of table.

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**Milk and Cream: Marketings and Income,
By State and United States, 1997 (continued)**

State	Milk Utilized	Average Returns ¹		Cash Receipts from Marketings
		Per Cwt Milk	Per Lb Milkfat	
	<i>Million Pounds</i>	<i>Dollars</i>	<i>Dollars</i>	<i>1,000 Dollars</i>
OH	4,385	13.30	3.60	583,205
OK	1,232	13.80	3.85	170,016
OR	1,580	13.81	3.78	218,120
PA	10,582	14.32	3.96	1,515,219
RI	31.5	14.50	4.14	4,568
SC	394	14.61	3.99	57,565
SD	1,370	13.20	3.57	180,840
TN	1,600	14.10	3.95	225,600
TX	5,747	13.70	3.83	787,339
UT	1,520	12.88	3.58	195,825
VT	2,570	14.34	3.86	368,606
VA	1,843	14.00	3.93	258,020
WA	5,274	13.81	3.79	728,143
WV	263	13.50	3.68	35,505
WI	22,117	13.33	3.54	2,948,196
WY	82.2	12.20	3.36	10,028
US ²	154,697	13.53	3.70	20,936,726

¹ Cash receipts divided by milk or milkfat in combined marketings.

² Sum of parts may not equal totals due to rounding.

Value of Milk Production: By State and United States, 1997

State	Used for Milk, Cream & Butter Where Produced		Gross Producer Income ²	Value of Milk Produced ^{1 3}
	Milk Utilized	Value ¹		
	<i>Mil Pounds</i>	<i>1,000 Dollars</i>	<i>1,000 Dollars</i>	<i>1,000 Dollars</i>
AL	1	148	61,420	61,864
AK	0.4	82	2,974	3,077
AZ	1	130	345,020	346,320
AR	4	580	90,625	92,075
CA	3	395	3,630,157	3,633,055
CO	8	1,093	224,193	229,385
CT	1	152	76,284	77,194
DE			20,286	20,424
FL	1	165	407,880	408,540
GA	1	147	216,972	218,736
HI	1.2	297	29,776	30,393
ID	5	615	634,434	638,739
IL	2	272	296,888	299,608
IN	10	1,300	280,670	284,570
IA	18	2,412	490,172	494,862
KS	1	128	162,816	164,480
KY	10	1,370	244,408	248,655
LA	3	429	111,826	113,542
ME	1	146	95,792	96,964
MD	3	414	182,022	182,988
MA	1	155	66,301	67,073
MI	4	546	732,681	738,276
MN	15	1,979	1,202,269	1,214,799
MS	1	144	90,864	91,296
MO	6	822	319,895	323,594
MT	4	528	38,016	38,940
NE	10	1,320	135,300	137,280
NV	1	119	56,168	56,763
NH	1	146	47,304	47,888
NJ	1	138	40,710	41,262
NM	6	790	526,726	528,439
NY	25	3,354	1,529,512	1,546,954
NC	10	1,510	195,092	196,904
ND	2	248	86,552	88,412

See footnotes at end of table.

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Value of Milk Production: By State and United States, 1997 (continued)

State	Used for Milk, Cream & Butter Where Produced		Gross Producer Income ²	Value of Milk Produced ^{1 3}
	Milk Utilized	Value ¹		
	<i>Mil Pounds</i>	<i>1,000 Dollars</i>	<i>1,000 Dollars</i>	<i>1,000 Dollars</i>
OH	8	1,064	584,269	587,195
OK	2	276	170,292	172,362
OR	5	690	218,810	222,262
PA	11	1,575	1,516,794	1,526,674
RI			4,568	4,626
SC	1	146	57,711	58,003
SD	2	264	181,104	182,688
TN	1	141	225,741	226,869
TX	2	274	787,613	790,216
UT	2	258	196,083	198,402
VT	5	717	369,323	372,909
VA	2	280	258,300	260,120
WA	1	138	728,281	732,423
WV	1	135	35,640	35,910
WI	51	6,798	2,954,994	2,981,654
WY	0.2	24	10,052	10,223
US ⁴	256	34,854	20,971,580	21,125,886

¹ Valued at averaged returns per 100 pounds of milk in combined marketings of milk and cream.

² Cash receipts from marketings of milk and cream plus value of milk used for home consumption.

³ Includes value of milk fed to calves.

⁴ May not add due to rounding.

**Milk Cows and Production of Milk and Milkfat:
By State and United States, 1998 ¹**

State	Number of Milk Cows ²	Production of Milk and Milkfat ³				
		Per Milk Cow		Percentage of Fat in All Milk Produced	Total	
		Milk	Milkfat		Milk	Milkfat
	<i>1,000 Head</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Percent</i>	<i>Million Pounds</i>	<i>Million Pounds</i>
AL	28	13,786	505	3.66	386	14.1
AK	0.9	15,922	535	3.36	14.33	0.5
AZ	131	20,458	730	3.57	2,680	95.7
AR	49	13,041	469	3.60	639	23.0
CA	1,420	19,442	714	3.67	27,607	1,013.2
CO	83	20,349	737	3.62	1,689	61.1
CT	30	17,633	638	3.62	529	19.1
DE	11.0	14,827	547	3.69	163.1	6.0
FL	160	14,588	522	3.58	2,334	83.6
GA	93	15,452	558	3.61	1,437	51.9
HI	8.9	14,494	497	3.43	129	4.4
ID	292	19,743	705	3.57	5,765	205.8
IL	128	16,570	611	3.69	2,121	78.3
IN	136	16,154	593	3.67	2,197	80.6
IA	223	17,188	641	3.73	3,833	143.0
KS	82	15,915	579	3.64	1,305	47.5
KY	140	12,214	442	3.62	1,710	61.9
LA	63	11,921	412	3.46	751	26.0
ME	41	16,585	600	3.62	680	24.6
MD	86	15,581	575	3.69	1,340	49.4
MA	26	16,846	622	3.69	438	16.2
MI	300	17,970	652	3.63	5,391	195.7
MN	551	16,833	623	3.70	9,275	343.2
MS	42	13,786	496	3.60	579	20.8
MO	170	13,924	507	3.64	2,367	86.2
MT	18	16,167	577	3.57	291	10.4
NE	70	15,000	554	3.69	1,050	38.7
NV	25	18,640	669	3.59	466	16.7
NH	20	16,700	623	3.73	334	12.5
NJ	19	15,368	542	3.53	292	10.3
NM	217	20,065	704	3.51	4,354	152.8
NY	701	16,748	613	3.66	11,740	429.7
NC	75	16,800	617	3.67	1,260	46.2
ND	51	13,843	508	3.67	706	25.9

See footnotes at end of table.

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**Milk Cows and Production of Milk and Milkfat:
By State and United States, 1998 (continued) ¹**

State	Number of Milk Cows ²	Production of Milk and Milkfat ³				
		Per Milk Cow		Percentage of Fat in All Milk Produced	Total	
		Milk	Milkfat		Milk	Milkfat
	<i>1,000 Head</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Percent</i>	<i>Million Pounds</i>	<i>Million Pounds</i>
OH	264	16,629	614	3.69	4,390	162.0
OK	92	13,435	477	3.55	1,236	43.9
OR	89	17,787	649	3.65	1,583	57.8
PA	623	17,411	644	3.70	10,847	401.3
RI	2.1	15,714	581	3.70	33.0	1.2
SC	25	14,960	548	3.66	374	13.7
SD	102	14,069	519	3.69	1,435	53.0
TN	105	14,295	520	3.64	1,501	54.6
TX	352	15,923	568	3.57	5,605	200.1
UT	90	16,811	610	3.63	1,513	54.9
VT	161	16,801	622	3.70	2,705	100.1
VA	124	14,847	540	3.64	1,841	67.0
WA	248	21,476	786	3.66	5,326	194.9
WV	18	15,444	570	3.69	278	10.3
WI	1,369	16,685	622	3.73	22,842	852.0
WY	6.1	13,082	474	3.62	79.8	2.9
US	9,158	17,192	629	3.66	157,441	5,764.8

¹ May not add due to rounding.

² Average number during year, excluding heifers not yet fresh.

³ Excludes milk sucked by calves.

**Milk Used and Marketed by Producers:
By State and United States, 1998**

State	Milk Used Where Produced			Milk Marketed by Producers		
	Fed to Calves ¹	Used for Milk Cream and Butter	Total	Sold to Plants and Dealers ²	Sold Directly to Consumers ^{3 4}	Total
	<i>Million Pounds</i>	<i>Million Pounds</i>	<i>Million Pounds</i>	<i>Million Pounds</i>	<i>Million Pounds</i>	<i>Million Pounds</i>
AL	3	1	4	382		382
AK	0.5	0.4	0.9	13.23	0.2	13.43
AZ	11	1	12	2,668		2,668
AR	10	3	13	626		626
CA	20	3	23	27,169	415	27,584
CO	27	7	34	1,610	45	1,655
CT	5	1	6	510	13	523
DE	1.0		1.0	162.1		162.1
FL	4	1	5	2,329		2,329
GA	11	1	12	1,425		1,425
HI	1.8	0.9	2.7	126.3		126.3
ID	43	4	47	5,718		5,718
IL	19	2	21	2,100		2,100
IN	30	10	40	2,157		2,157
IA	27	10	37	3,796		3,796
KS	12	1	13	1,292		1,292
KY	31	10	41	1,669		1,669
LA	11	2	13	738		738
ME	8	1	9	663	8	671
MD	6	3	9	1,331		1,331
MA	5	1	6	415	17	432
MI	40	3	43	5,330	18	5,348
MN	95	10	105	9,170		9,170
MS	3	1	4	575		575
MO	25	5	30	2,337		2,337
MT	7	4	11	280		280
NE	15	10	25	1,025		1,025
NV	5	1	6	460		460
NH	5	1	6	328		328
NJ	3	1	4	288		288
NM	13	6	19	4,290	45	4,335
NY	130	17	147	11,581	12	11,593
NC	12	10	22	1,238		1,238
ND	14	2	16	690		690

See footnotes at end of table.

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**Milk Used and Marketed by Producers: By State
and United States, 1998 (continued)**

State	Milk Used Where Produced			Milk Marketed by Producers		
	Fed to Calves ¹	Used for Milk, Cream and Butter	Total	Sold to Plants and Dealers ²	Sold Directly to Consumers ^{3 4}	Total
	<i>Million Pounds</i>	<i>Million Pounds</i>	<i>Million Pounds</i>	<i>Million Pounds</i>	<i>Million Pounds</i>	<i>Million Pounds</i>
OH	24	10	34	4,356		4,356
OK	12	4	16	1,220		1,220
OR	21	4	25	1,493	65	1,558
PA	65	11	76	10,506	265	10,771
RI	0.7		0.7	32.3		32.3
SC	2	1	3	369	2	371
SD	12	2	14	1,421		1,421
TN	10	1	11	1,490		1,490
TX	21	1	22	5,583		5,583
UT	10	2	12	1,446	55	1,501
VT	26	5	31	2,668	6	2,674
VA	11	2	13	1,828		1,828
WA	26	1	27	5,109	190	5,299
WV	2	1	3	275		275
WI	229	55	284	22,558		22,558
WY	1.7	0.2	1.9	77.9		77.9
US ⁵	1,127	235	1,361	154,924	1,156	156,080

¹ Excludes milk sucked by calves.

² Includes milk produced by dealer's own herds and small amounts sold directly to consumers. Also included equivalent amounts of milk for cream sold to plants and dealers.

³ Sales directly to consumers by producers who sell only milk from their own herds. Also includes milk produced by institutional herds.

⁴ For States not published, sales are included in milk sold to plants.

⁵ May not add due to rounding.

**Milk Marketed by Producers: Quantity, Price, and Cash Receipts
by State and United States, 1998**

State	Milk Sold to Plants and Dealers ¹				Milk Sold Directly to Consumers ²		
	Quantity	Percent Fluid Grade ³	Price per 100 Lbs	Cash Receipts	Quantity	Price per Quart	Cash Receipts
	<i>Mil Lbs</i>	<i>Percent</i>	<i>Dollars</i>	<i>1,000 Dol</i>	<i>1,000 Qts</i>	<i>Dol</i>	<i>1,000 Dol</i>
AL	382	100	16.50	63,030			
AK	13.23	100	20.30	2,686	93	0.90	84
AZ	2,668	100	14.60	389,528			
AR	626	100	15.60	97,656			
CA	27,169	99	15.01	4,078,067	193,023	1.10	212,325
CO	1,610	100	15.00	241,500	20,930	0.90	18,837
CT	510	100	16.00	81,600	6,047	0.80	4,838
DE	162.1	100	15.70	25,450			
FL	2,329	100	18.20	423,878			
GA	1,425	100	16.60	236,550			
HI	126.3	100	26.36	33,293			
ID	5,718	97	14.50	829,110			
IL	2,100	96	15.10	317,100			
IN	2,157	94	14.80	319,236			
IA	3,796	94	15.40	584,584			
KS	1,292	98	14.70	189,924			
KY	1,669	98	15.50	258,695			
LA	738	100	16.20	119,556			
ME	663	100	15.80	104,754	3,721	0.57	2,121
MD	1,331	100	15.70	208,967			
MA	415	100	16.40	68,060	7,907	0.70	5,535
MI	5,330	99	15.30	815,490	8,372	0.65	5,442
MN	9,170	93	15.55	1,425,935			
MS	575	100	16.20	93,150			
MO	2,337	95	15.60	364,572			
MT	280	100	15.00	42,000			
NE	1,025	94	15.10	154,775			
NV	460	100	13.80	63,480			
NH	328	100	16.30	53,464			
NJ	288	100	15.60	44,928			
NM	4,290	100	14.80	634,920	20,930	0.88	18,418
NY	11,581	100	15.40	1,783,474	5,581	0.69	3,851
NC	1,238	99	16.90	209,222			
ND	690	65	14.30	98,670			

See footnotes at end of table.

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**Milk Marketed by Producers: Quantity, Price, and Cash Receipts
by State and United States, 1998**

State	Milk Sold to Plants and Dealers ¹				Milk Sold Directly to Consumers ²		
	Quantity	Percent Fluid Grade ³	Price Per 100 Lbs	Cash Receipts	Quantity	Price Per Quart	Cash Receipts
	<i>Mil Lbs</i>	<i>Percent</i>	<i>Dollars</i>	<i>1,000 Dol</i>	<i>1,000 Qts</i>	<i>Dol</i>	<i>1,000 Dol</i>
OH	4,356	94	15.20	662,112			
OK	1,220	100	15.60	190,320			
OR	1,493	99	15.50	231,415	30,233	0.60	18,140
PA	10,506	99	15.80	1,659,948	123,256	0.58	71,488
RI	32.3	100	16.30	5,265			
SC	369	100	16.40	60,516	930	0.87	809
SD	1,421	61	15.50	220,255			
TN	1,490	98	15.90	236,910			
TX	5,583	100	15.70	876,531			
UT	1,446	92	14.60	211,116	25,581	0.68	17,395
VT	2,668	100	16.00	426,880	2,791	0.69	1,926
VA	1,828	99	16.20	296,136			
WA	5,109	100	15.40	786,786	88,372	0.64	56,558
WV	275	99	15.40	42,350			
WI	22,558	93	15.50	3,496,490			
WY	77.9	80	13.70	10,672			
US ⁴	154,924	97	15.41	23,871,006	537,767	0.814	437,767

¹ Includes the equivalent amounts of milk for cream sold to plants and dealers.

² Some States not published to avoid disclosing individual operations. Includes sales directly to consumers by producers who sell only milk from their own herds. Also includes milk produced by institutional herds.

³ Percentage of milk sold to plants and dealers that is eligible for fluid use (grade A for fluid use in most States). Includes fluid-grade milk used in manufacturing dairy products.

⁴ May not add due to rounding.

**Milk and Cream: Marketings and Income,
By State and United States, 1998**

State	Milk Utilized	Average Returns ¹		Cash Receipts from Marketings
		Per Cwt Milk	Per Lb Milkfat	
	<i>Million Pounds</i>	<i>Dollars</i>	<i>Dollars</i>	<i>1,000 Dollars</i>
AL	382	16.50	4.51	63,030
AK	13.43	20.63	6.14	2,770
AZ	2,668	14.60	4.09	389,528
AR	626	15.60	4.33	97,656
CA	27,584	15.55	4.24	4,290,392
CO	1,655	15.73	4.35	260,337
CT	523	16.53	4.57	86,438
DE	162.1	15.70	4.25	25,450
FL	2,329	18.20	5.08	423,878
GA	1,425	16.60	4.60	236,550
HI	126.3	26.36	7.69	33,293
ID	5,718	14.50	4.06	829,110
IL	2,100	15.10	4.09	317,100
IN	2,157	14.80	4.03	319,236
IA	3,796	15.40	4.13	584,584
KS	1,292	14.70	4.04	189,924
KY	1,669	15.50	4.28	258,695
LA	738	16.20	4.68	119,556
ME	671	15.93	4.40	106,875
MD	1,331	15.70	4.25	208,967
MA	432	17.04	4.62	73,595
MI	5,348	15.35	4.23	820,932
MN	9,170	15.55	4.20	1,425,935
MS	575	16.20	4.50	93,150
MO	2,337	15.60	4.29	364,572
MT	280	15.00	4.20	42,000
NE	1,025	15.10	4.09	154,775
NV	460	13.80	3.84	63,480
NH	328	16.30	4.37	53,464
NJ	288	15.60	4.42	44,928
NM	4,335	15.07	4.29	653,338
NY	11,593	15.42	4.21	1,787,325
NC	1,238	16.90	4.60	209,222
ND	690	14.30	3.90	98,670

See footnotes at end of table.

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**Milk and Cream: Marketings and Income,
By State and United States, 1998 (continued)**

State	Milk Utilized	Average Returns ¹		Cash Receipts from Marketings
		Per Cwt Milk	Per Lb Milkfat	
	<i>Million Pounds</i>	<i>Dollars</i>	<i>Dollars</i>	<i>1,000 Dollars</i>
OH	4,356	15.20	4.12	662,112
OK	1,220	15.60	4.39	190,320
OR	1,558	16.02	4.39	249,555
PA	10,771	16.07	4.34	1,731,436
RI	32.3	16.30	4.41	5,265
SC	371	16.53	4.52	61,325
SD	1,421	15.50	4.20	220,255
TN	1,490	15.90	4.37	236,910
TX	5,583	15.70	4.40	876,531
UT	1,501	15.22	4.19	228,511
VT	2,674	16.04	4.33	428,806
VA	1,828	16.20	4.45	296,136
WA	5,299	15.92	4.35	843,344
WV	275	15.40	4.17	42,350
WI	22,558	15.50	4.16	3,496,490
WY	77.9	13.70	3.78	10,672
US ²	156,080	15.57	4.25	24,308,773

¹ Cash receipts divided by milk or milkfat in combined marketings.

² May not add due to rounding.

Value of Milk Production: By State and United States, 1998

State	Used for Milk, Cream & Butter Where Produced		Gross Producer Income ²	Value of Milk Produced ^{1 3}
	Milk Utilized	Value ¹		
	<i>Mil Pounds</i>	<i>1,000 Dollars</i>	<i>1,000 Dollars</i>	<i>1,000 Dollars</i>
AL	1	165	63,195	63,690
AK	0.4	83	2,853	2,956
AZ	1	146	389,674	391,280
AR	3	468	98,124	99,684
CA	3	467	4,290,859	4,293,969
CO	7	1,101	261,438	265,685
CT	1	165	86,603	87,430
DE			25,450	25,607
FL	1	182	424,060	424,788
GA	1	166	236,716	238,542
HI	0.9	237	33,530	34,005
ID	4	580	829,690	835,925
IL	2	302	317,402	320,271
IN	10	1,480	320,716	325,156
IA	10	1,540	586,124	590,282
KS	1	147	190,071	191,835
KY	10	1,550	260,245	265,050
LA	2	324	119,880	121,662
ME	1	159	107,034	108,308
MD	3	471	209,438	210,380
MA	1	170	73,765	74,617
MI	3	461	821,393	827,533
MN	10	1,555	1,427,490	1,442,263
MS	1	162	93,312	93,798
MO	5	780	365,352	369,252
MT	4	600	42,600	43,650
NE	10	1,510	156,285	158,550
NV	1	138	63,618	64,308
NH	1	163	53,627	54,442
NJ	1	156	45,084	45,552
NM	6	904	654,242	656,202
NY	17	2,621	1,789,946	1,809,988
NC	10	1,690	210,912	212,940
ND	2	286	98,956	100,958

See footnotes at end of table.

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Value of Milk Production: By State and United States, 1998 (continued)

State	Used for Milk, Cream & Butter Where Produced		Gross Producer Income ²	Value of Milk Produced ^{1 3}
	Milk Utilized	Value ¹		
	<i>Mil Pounds</i>	<i>1,000 Dollars</i>	<i>1,000 Dollars</i>	<i>1,000 Dollars</i>
OH	10	1,520	663,632	667,280
OK	4	624	190,944	192,816
OR	4	641	250,196	253,559
PA	11	1,768	1,733,204	1,743,653
RI			5,265	5,379
SC	1	165	61,490	61,821
SD	2	310	220,565	222,425
TN	1	159	237,069	238,659
TX	1	157	876,688	879,985
UT	2	304	228,815	230,338
VT	5	802	429,608	433,777
VA	2	324	296,460	298,242
WA	1	159	843,503	847,641
WV	1	154	42,504	42,812
WI	55	8,525	3,505,015	3,540,510
WY	0.2	27	10,699	10,932
US ⁴	235	36,568	24,345,341	24,520,387

¹ Valued at averaged returns per 100 pounds of milk in combined marketings of milk and cream.

² Cash receipts from marketings of milk and cream plus value of milk used for home consumption.

³ Includes value of milk fed to calves.

⁴ May not add due to rounding.

Supply and Utilization of Milk: United States, 1996-98 ¹

Item	1996	1997	1998
	<i>Million Pounds</i>	<i>Million Pounds</i>	<i>Million Pounds</i>
SUPPLY			
Milk Production	154,006	156,091	157,441
Net Imports of Ingredients (M.E.) ²	185	168	529
Net Change in Storage Cream (M.E.) ³	NA	NA	NA
Total Supply	154,191	156,259	157,970
UTILIZATION			
Used in Manufactured Products (M.E.)			
Creamery Butter	26,187	25,714	24,248
Butter from Whey Cream	4,911	4,939	5,070
Net Milk Equivalent	21,276	20,775	19,178
Cheese			
American	32,551	32,760	33,146
Other	21,386	22,400	23,610
Canned Milk			
Evaporated, Sweetened Condensed	1,013	1,208	1,030
Bulk Condensed Whole Milk, Unsweetened	242	227	220
Bulk Condensed Whole Milk, Sweetened	266	276	186
Dry Whole Milk	983	898	1,045
Ice Cream and Other Frozen Dairy Products	15,248	15,856	16,496
Butter and Condensed Milk, Used in Ice Cream	2,058	2,116	2,173
Net Milk Equivalent	13,190	13,740	14,323
Other Manufactured Products ⁴	678	686	697
Total Manufactured Products	91,585	92,970	93,435
Available for Use in Fluid Products			
Sold by Dealers	55,565	55,382	55,176
Sold by Producers Directly to Consumers ⁵	1,299	1,292	1,156
Total Available for Fluid Products ⁶	56,864	56,674	56,332
Used Where Produced			
Fed to Calves	1,175	1,138	1,127
Consumed on Farms	301	256	235
Total Used by Producers	1,476	1,394	1,361
Residual ⁷	4,266	5,221	6,842
Total Utilization	154,191	156,259	157,970

See footnotes on next page.

- ¹ Milk production plus the milk equivalent (ME) of net imports of dairy manufacturing ingredients and net out-of-storage movement of cream equals total supply. Data on milk used in manufacturing products are based on total milkfat required to produce the products and include the milk equivalent of any imported dairy ingredients used.
- ² Whole milk equivalent (milkfat basis) of net imports of dairy manufacturing ingredients such as frozen cream and butterfat-sugar mixtures.
- ³ Whole milk equivalent of net out-of-storage movement of fluid and plastic cream during the year. A negative figure represents a net movement of cream into storage.
- ⁴ Includes cottage cheese, anhydrous milkfat, butter oil, and butterine.
- ⁵ Sales directly to consumers by producers who sell only milk from their own herds. Also includes milk produced by institutional herds.
- ⁶ Total sales in U.S. (USDA-AMS).
- ⁷ Residual, includes minor miscellaneous uses and any inaccuracies in production, utilization estimates, or milk equivalent conversions..

Index

Page

Marketings, Income, and Value of Milk Production: United States, 1996-98	3
Milk and Cream: Marketings and Income, by State and United States, 1997	10
Milk and Cream: Marketings and Income, by State and United States, 1998	20
Milk Cows and Production of Milk and Milkfat: by State and United States, 1997	4
Milk Cows and Production of Milk and Milkfat: by State and United States, 1998	14
Milk Cows and Production of Milk and Milkfat: United States, 1996-1998	2
Milk Marketed by Producers: Quantity, Price, and Cash Receipts by State and United States, 1997	8
Milk Marketed by Producers: Quantity, Price and Cash Receipts by State and United States, 1998	18
Milk Marketed by Producers: Quantity, Price, and Cash Receipts United States, 1996-1998	2
Milk Used and Marketed by Producers: by State and United States, 1997	6
Milk Used and Marketed by Producers: by State and United States, 1998	16
Milk Used and Marketed by Producers: United States, 1996-1998	2
Supply and Utilization of Milk: United States, 1996-98	24
Value of Milk Production: by State and United States, 1997	12
Value of Milk Production: by State and United States, 1998	22

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